

## CLAIMS

- 1 1. A scalable processing system, comprising:
  - 2 a memory device that includes a plurality of executable program instructions, wherein
  - 3 each of said executable program instructions includes a timetag data field indicative of the
  - 4 nominal sequential order of said associated executable program instructions; and
  - 5 a plurality of processing elements, which are configured and arranged to receive
  - 6 executable program instructions from said memory device, wherein each of said processing
  - 7 elements executes executable instructions having the highest priority as indicated by the state of
  - 8 said timetag data field.